



553493

(43) International Publication Date  
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number  
**WO 2004/092978 A2**

(51) International Patent Classification<sup>7</sup>: **G06F 17/24**

(21) International Application Number:  
PCT/EP2004/003049

(22) International Filing Date: 27 February 2004 (27.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03368039.8 18 April 2003 (18.04.2003) EP

(71) Applicant (for all designated States except US): **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, NY 10504 (US).

(71) Applicant (for MC only): **COMPAGNIE IBM FRANCE** [FR/FR]; Tour Descartes- La Defense 5, 2, avenue Gambetta, F-92400 Courbevoie (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AUREGLIA, Jean-Jacques** [FR/FR]; 1094 Route du Canaire, F-06670 Saint

Martin du Var (FR). **BAUCHOT, Frederic** [FR/FR]; 299 Chemin du Vallon, La Tourraque, F-06640 Saint Jeannet (FR).

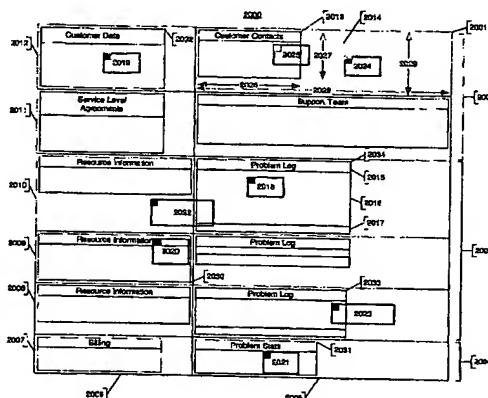
(74) Agent: **DE PENA, Alain**; Compagnie IBM France, Direction de la Propriété Intellectuelle, F-06610 La Gaude (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **SYSTEM AND METHOD IN A DATA TABLE FOR MANAGING DELETION OPERATIONS IN RECURSIVE SCALABLE TEMPLATE INSTANCES**



(57) Abstract: The present invention is directed to a method, system and program in a multi-dimensional electronic data table comprising a plurality of data, for managing deletion operations in a recursive scalable template instance; a recursive scalable template instance comprising a variable number of contiguous recursive element instances ordered and aligned along a first data table dimension and structured according to a recursive scalable template; said recursive scalable template comprising a recursive element including one or a plurality of scalable templates; each recursive element instance having a variable size along said first data table dimension and a same size along a second data table dimension; a recursive element instance comprising one or a plurality of scalable template instances; each scalable template instance of each recursive element instance being aligned along said first data table dimension; each scalable template instance within each recursive element instance being aligned along a second data table dimension; a scalable template instance comprising a variable number of elements structured according to a scalable template; an element being defined as a range of data; a range of data comprising one or a plurality of data.

WO 2004/092978 A2



**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *without international search report and to be republished  
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*